THE TECH

VOL. XXVII. No. 65 BOSTON, MASS., WEDNESDAY, APRIL 1, 1908 PRICE THREE CENTS

TECHNOLOGY TRACK SQUAD, 1908

BRIDGE DISASTER DUE TO FAULTY LATTICING.

PROF. SWAIN TELLS CIVILS.

Quebec Cantilever should also have been more Extensively Riveted.

Before one hundred and fifty members of the Civil Engineering Society at the Union Monday night Prof. Swain gave a talk on bridge building with special reference to the Quebec bridge disaster. The talk included discussion of the sizes of bridges now in existance, the different types of bridges, methods of erecting them, the English and American systems of designing and building, and lastly, the collapse of the Quebec bridge and the lessons to be learned from it.

The Quebec bridge was being built by the Phoenix Bridge Company and was designed by some of the best engineers in the world. On August 27, 1907, the first cantilever and one half the middle span being then completed, the entire structure, weighing 17,000 tons, fell. It has been proved that the materials used and the workmanship were of the best and that the fault lay in the designing.

The primary cause was in the faulty latticing of the cords, which was far less in proportion to their extra size than had always been the practice of construction. Then, too, fewer rivets were used in the latticing than ordinarily. These two mistakes pitched the bridge into the St. Lawrence.

Professor Swain said that this was the greatest of all engineering failures and that much is to be learned from

(Continued on page 3.)

ELECTION OF CHASE CAPTAIN.

The newly formed Lare and Hounds Club will begin its active life Friday with the annual election of officers. There are two offices open to election, that of chase captain and that of assistant chase captain. In the days of the old Cross Country Association there was no assistant.

MANY NEW STUNTS BY TECH GYMNASTS.

EXHIBITION COMES FRIDAY.

Exceptional Work on the Side Horse and High Bar.

The gymnastic exhibition Friday promises to be a great success. President Noyes, Dean Burton, and a large number of the faculty have signified their intention of being present.

Numerous new stunts which have seldom been accomplished by previous Tech gym teams are now being practised daily. The program for Friday night includes wrestling by H. O. Jenks 1909, and A. M. Coleman 1908, boxing by G. Schobinger 1908 and F. A. Burton 1909, and by H. O. Billings 1910 and S. Chase 1910, and bouts by some of the members of the fencing team.

Darrow, Howell, Gott and Schobinger will apear in the majority of the events, while Cary, considered as one of the best men on the side-horse in

(Continued on page 3.)

COURSE I SENIORS TO DESIGN BOSTON SUBWAY.

OTHER THESIS WORK.

Important Engineering Matters Being Investigated.

In civil engineering many matters of deep local interest are being worked out in theses, while those of timely importance abound throughout.

One of interest to the merchants of Massachusetts Avenue and in Cambridge, together with the mayor of the city and the Boston Elevated R. R. is a thesis being carried on by C. D. Putnam and G. A. Quinlan with the title "A Review of the Boylston Street Bridge over the B. & A. R. R. Tracks, Boston, Mass.,

(Continued on page 3.)

FRESHMEN LEAD OFF IN BASEBALL SEASON.

GAME THIS AFTERNOON.

Will Play Noble and Greenough at their Field.

The freshman baseball team will run up against its first real competition this year when it meets the Noble and Greenough team this afternoon. The game will be on the latter's grounds.

For some time the team has been working and has been engaging in practice at the Field. Some very good baseball players have shown up and the outlook for the season is far from dark.

Little can be told about the two teams which will meet this afternoon as neither have payed as yet any games. The freshmen will be at a little disadvantage on account of the lack of organization.

The line-up will be as follows:—McLoughlin, catcher; Odell, first base; Williams, catcher; Covill, center field; Parker, short stop; de Florez, third base; Shatz, right field; O'Neil, left field; Johnson and Van Syckle, pitchers. The substitutes who will be taken are Osbourne, Kenney, Maguire, Yearance, and Blume.

ARCHITECTS PLAN RECEPTION.

At a special meeting of the Architectural Society yesterday afternoon, it was decided to have a reception and exhibition during Junior Week. The recepton that the architects gave last year was one of the most successful of Junior Week festivities.

Tomorrow afternoon, the rival ateliers of the department will settle all bets and scraps by a baseball game at the Field. "Monty's Mugs will play "Pop's Pups" in the first of the championship series.

1911.—The following men will report on Rogers steps today at 2.30 for the game with Noble and Greenough: McLoughlin, Odell, Williams, Covill, Parker, de Florez, Shatz, O'Neill, Johnson, Van Syckle, Osbourne, Kenney, Maguire, Yearance, Blume.

TRACK SQUAD LARGER THAN EVER BEFORE.

ATTENDANCE REGULAR.

Work at the Field has been Going on for Some Time.

One of the largest track squads in the history of the Institute has reported for work this year. The large number however has been offset by the poor attendance of the men who have been coming out.

Little work was done yesterday on account of the bad weather and the small number of men out.

The men in the picture are: :

Top row, Left to Right—Coach F. M. Kanaly, Manager R. W. Ferris, Cross Country Team: E. S. Hanna 1909, F. F. Bell 1910, M. R. Scharff 1909, W. O. Whitney 1911, D. V. Williamson 1910, F. C. Dolke 1911, Manager D. C. McMurtrie 1910.

Second Row—R. A. D. Preston 1910, H. J. Ruggles 1908, G. H. Magee 1910, A. A. Gould 1910, W. C. West 1911, W. Morrison 1908, S. M. Niles 1911, W. D. Allen 1911, L. G. Glazier 1911, K. R. Faunce 1911, D. R. Stevens 1911.

Third Row—E. S. Howe 1908, L. O. Mills 1910, J. H. Ruckman 1910, C. E. Greene 1910, C. L. Batchelder 1908, R. H. Allen 1909, F. Moore 1909, W. J. Seligman 1911, J. F. McCarthy 1909, M. E. Allen 1908, P. D. White 1911, H. Lockett 1910.

Fourth Row—G. B. Cummings 1910, G. Schobinger 1908, K. D. Fernstrom 1910, B. L. Gimson 1908, T. W. Orr 1908, Captain; R. Ellis 1909, Captain Cross Country; H. H. Howland 1908, L. D. Nisbet 1909, W. T. MacCreadie 1911.

Front Row—J. D. MacKenzie 1911, C. S. Clapp 1908, W. C. Salisbury 1911, C. P. Eldred 1911, L. C. Cooley 1911, R. H. Gould 1911, J. Schaaf 1909, G. B. Wilbur 1911.

Medford High School has announced its intention of entering a team in the annual Technology interscholastic drill. Medford has won three individual championships in past contests and one team prize.

THE TECH

Published every Monday, Wednesday, and Friday during the college year by students of the Massachusetts Institute of Technology.

Entered as second-class matter October 6, 1904, at the post office at Boston, Mass., under the Act. of Congress of March 3, 1879.

All communications regarding advertisements should be addressed to the Business Manager. Regarding subscriptions address the Circulation Manager.

Subscription - - - $1.50 per year in advance. Single Copies 3 Cents.

Subscriptions within the Boston Postal District and outside of United States must be accompanied by postage.

Printed by Old Colony Press, Boston.

Wednesday, April 1, 1908.

The Tech regrets to announce the resignation of G. A. Haynes 1909, from the Board of Editors.

EFFICIENCY WANTED.

A new chase captain and an assistant chase captain are to be elected at the next meeting of the newly organized Hare and Hounds Club. Every man who has been on a hare and hounds chase, or is in any way interested in cross-country work, and the cross-country team of the Institute should feel it his duty to be at this meeting.

An efficient chase captain is one of the most important requisites to the getting out of a large squad, of securing good places for the weekly runs that provide the training for the team. So finally the chase captain has a large share in the responsibility of the cross-country work. The assistant chase captain is to be an aid to the chase captain, and must also be an efficient man.

With these facts in mind it is obvious that the men who have been connected with cross-country work should get out next Friday and elect the best men in the Institute for these important positions.

A GOOD SUGGESTION.

In this column appears a communication suggesting a spring tennis tournament. This appears to be a very excellent idea and there seems to be no reason why it should not be adopted. There are a great number of fellows at the Institute who are interested in the sport and some competition should be furnished for them at this time of year.

In the event that such a tournament should be established it would be necessary to arrange ahead of time in some way as to who should have the courts for certain afternoons.

COMMUNICATION.

To the Editor of The Tech:

There is quite a large class of men at the Institute who spend much of their spare time during the spring months at tennis. Wouldn't it add to the enjoyment of these men if they could enter in a tournament?

Tennis is a game which lends itself peculiarly to the conditions at the Institute—a match can be played in an hour or two and it is unnecessary for a number of men to get together for team practice (as baseball requires for instance.) And yet it has been heretofore totally neglected during the spring (except for the work of the team in the intercollegiate championships.)

It seems to me that a spring tournament would bring out plenty of men and be a good thing for all concerned. The entry fee need not, perhaps, be so high as in the fall tournament and the larger number of entries which this would probably bring about ought to be amply sufficient for a couple of modest prizes.

The fall tournament always drags out into the cold, uncomfortable weather and it is impossible to get much pleasure out of tennis when one feels like wearing a big sweater and heavy gloves. Spring is the best time for the game and about the beginning of April, at the latest, the courts begin to get into condition. That would give us a good six weeks before any of the exams commenced.

DONALD V. WILLIAMSON, 1910.

OUTCOME OF COURSE RACE IS UNCERTAIN.

COURSE I IS STRONG.

Electricals seem to have Next Best Chance

Predictions regarding the outcome of the inter-course cross country run are difficult to make. Even if the entries were known it would not be an easy matter, but where the make-up of the various teams is so uncertain very few accurate prophecies can be made.

On paper Course I has everything its own way with Howland, McCarthy and Batchelder, who are as good a trio as there is at the Institute. Course II is not as famous for its stars as it used to be. Callaway and MacCreadie being the only men in it of much ability.

Among the miners there are several good men notably the veteran A. O. Christensen 1907, and B. C. Huber 1910. W. B. Hargraves 1910 has been doing excellent work this spring.

The architects are led by an old timer, C. S. Clapp 1908. Another Course IV man who should do well is W. S. Davis 1910, who has been showing up very well on the hare and hounds runs.

J. N. Stephenson 1909 will lead a team of chemists, among whom the most promising is S. M. Niles 1911.

Course VI seems to have a good chance of winning the championship. S. O. Niles 1910 and C. P. Eldred 1911 should finish among the first three or four, while H. C. Jenks 1911 should not be far behind.

The remaining courses united under Captain Ellis are handicapped by lack of material, only four men from these courses having come out for cross country work.

It is even harder to pick the individual champion, but it is tolerably sure that Howland, Callaway, McCarthy, MacCreadie, Ellis, Eldred, Niles, and Mills will be well up at the finish.

The scoring will be similar to that adopted in all intercollegiate cross country events, four men on each team scoring. The winning team is that with the smallest total score.

NOTICES.

CROSS COUNTRY.—The regular outdoor runs on Tuesday and Thursdays are discontinued. Regular work is held every afternoon at the Field. All who possibly can are therefore expected to run at the Field rather than from the Gym.

HARE AND HOUNDS CLUB.—There will be a meeting of the Hare and Hounds Club Friday at 4.15 P. M. in 26 Rogers to elect a chase captain and an assistant chase captain.

TECH SHOW.—Applications for Tech Show tickets must be in before 6.00 P. M., Saturday, April 4; otherwise they will not be filled unless the supply of tickets holds out.

MECHANICAL ENGINEERING SOCIETY.—Annual banquet at the Copley Square Hotel Friday evening. J. P. Tolman 1868 will speak. Tickets must be obtained by 4.00 P. M. today.

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COURSE I SENIORS TO DESIGN SUBWAY

(Continued from page 1.)

The extension of the subway into the Back Bay districts is being studied by J. T. Tobin and G. Schobinger in a thesis with the title "A Design for a Subway under Boylston Street and Huntington Avenue, Boston, Mass.

One thesis that will furnish information valuable in all excavation work, and the boring of subways and tunnels is being carried forward by H. Cross, H. V. Spurr and G. D. Whittle. The title of this thesis is "Experimental Studies of the Lateral Thrust and of the Angle of Internal Friction of Soils." A. C. Nichols is taking up a study which really comes under bridge work in his thesis "Savin Street Grade Crossing Elimination at Quincy, Mass." Valuable work is being done by J. H. Harwood and H. B. Luther in an "Experimental Study of the Loss of Head in Bends of Pipe."

Besides those mentioned there are the following theses being carried forward or about to be started:

"General Design of a Hydro-Electric Plant" by R. I. Ripley.

"Plan for Elimination of Grade Crossing at Cherry Street, Vicksburg, Miss.," by C. H. Shapleigh.

"Design for a Three-Hinged Steel Arch" by E. J. H. Waters.

"Design for a Dam and Power Plant at Brattleboro, Vermont," by M. T. Whiting.

In the course in sanitary engineering the only thesis so far announced is that by W. C. Folson and D. H. Maxwell on "Experiments to Determine the Lateral Distribution of Sewage in Percolating Filters."

MANY NEW STUNTS BY GYMNASTS.

(Continued from page 1.)

New England will probably surprise the audience by his agility. Courtney will swing Indian clubs, and as an additional feature all the lights will be extinguished and he will swing burning torches. Seven men are proficient in tumbling, and an equal number will perform on the high bar.

The following men have been chosen to appear on Friday night:—B. Darrow 1910, R. Howell 1910, G. Schobinger 1908, J. S. Pearse 1910, A. M. Coleman 1908, R. L. Cary 1909, H. S. Smith 1911, H. S. Sargent 1911, M. Coffin 1911, B. F. Courtney 1910, C. W. Wilson 1910, H. S. Gott and E. Kloberg 1908.

From this team Mr. Towne will choose those making the best showing to appear at the Hippodrome on Tech night. It is understood that several of the athletic advisory council will be invited to be present, with a view to having them sanction the inauguration of a new insignia, a T. G. T. It is hardly liable, however, that such will be awarded.

Tickets for the exhibition are on sale at the Cage, or may be procured from any of the jarticipants for 25 cents. Mr. Towne has arranged a gymnastic contest for next week with the Y. M. C. A.

BRIDGE DISASTER DUE TO LATTICING

(Continued from page 1.)

it. No computations of latticing had ever been made; tests had been relied on and consequently the engineers in charge could not be blamed too much for their mistake. There was nothing but practice for them to refer to: the theory was lacking. In closing Prof. Swain laid special emphasis on the fact that "it is easy to be wise after the event." He argued that the designing engineers of the Quebec bridge were more to be pitied than blamed and that they were better men because of their mistake and therefore more to be trusted. The theoretical knowledge that they needed was not to be obtained so they did what they could with the practical knowledge at their disposal.

PATENTS FROM PERSONAL EXPERIENCE.

Professor W. H. Walker gave a short, comprehensive discourse on patents and their accompanying troubles of litigation at the chemical smoker last night.

He said that a patent is obtainable on an art, machine, composition of matter, or manufacture which is usefully new, gives results not heretofore obtainable. The specification for a patent should be made with the help of an attorney as it is an art in itself to reach a happy medium between the value of detailed claims and the weakening effect of spreading it out too thin.

Prof. Walker pointed out the advantages of the British requirement that a patented article must be purchasable in quantities at a factory in the country, in comparison to the United States where unhappily this is not the case and where the employees are underpayed in a "penny-wise pound-foolish" way.

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CALENDAR.

Wednesday, April 1, 1908.

4.00 P. M. Tech Show Chorus Rehearses at the Union.
4.00 P. M. Lecture on "Electricity in Mining" in 2 Rogers.
3.00 P. M. Baseball, 1911 vs. Noble-Greenough at Their Field.

Thursday, April 2, 1908.

1.30 P. M. Y. M. C. A. Meeting in Trinity Church Library.
2.00 P. M. Marshal Ballots Due at Cage.
2.30 P. M. Architects Baseball Game at the Field.
4.00 P. M. Track and Cross Country Practice at the Field.
4.00 P. M. Tech Show Principals Rehearse at the Union.
4.15 P. M. Mandolin Club Rehearses in 31 Rogers.

Friday, April 3, 1908.

4.00 P. M. Lecture on "Electricity in Mining" in 2 Rogers.
4.00 P. M. Tech Show Chorus Rehearses at the Union.
4.15 P. M. Glee Club Rehearses in Y. M. C. A. Auditorium.
4.15 P. M. Hare and Hounds Club Elect Officers in 26 Rogers.
4.15 P. M. Banjo Club Rehearses in 33 Rogers.
6.30 P. M. M. E. Society Dinner at Copley Square Hotel.
8.00 P. M. Gym Team Exhibits at the Gym.

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FACULTY NOTICE.

a scholarship (except a state scholarship) should hand in his application blank at the registrar's office, and leave his name before April 9 on a special card in Prof. Dewey's box. (Blanks and cards may be obtained at the registrar's office. Notification will be made through the Cage in regard to date selected for consultation.

Applications for state scholarships should be made to the secretary of the State Board of Education on blanks to be furnished at the State House. Students intending to apply for state scholarships are requested to notify the registrar to that effect.

NOTICE.

Y. M. C. A.—Mr. S. B. Carter, of Carter, Peabody & Co., will address the meeting tomorrow in Trinity Church Library at 1.30 P. M. Carter's subject will be "Opportunities for Service."

CLASSIFIED ADS.

Advertisements of this kind under different classifications are inserted at the rate of five cents a line, averaging six words to a line, payable in advance.

Men who desire summer work at $2.50 per day, leave note for Woodruff at the Cage. ATTEND TO THIS NOW.

CAMERA FOR SALE.—A Century 4 x 5 camera with unusual good lens, for sale. Exchange for Eastman Folding Kodak will be considered. Address Box 24, the Cage.

FOR SALE—Indian motocycle, new list September, run only 312 miles; guaranteed in perfect condition. $145 cash, cost $210. For further particulars leave note at cage for T. F. W. Meyer.

FOR SALE.—Technique 1909 has a few subscriptions to the Engineering Record, the Street Railway Journal, and the Electrical World, which will be sold at $2.50 as long as they last. Regular price $3.00.

TECH SHOW

Applications due Saturday

All good seats for the Boston performances will be given to those who apply before 6 P.M. Saturday, April 4.

APPLY NOW

Smith Sympathisers — Notice

The Show will go on a special train by way of the Boston & Maine Railroad, and will leave the North Station Saturday, April 18, returning immediately after the performance. All men who desire to secure accommodations going or returning are requested to notify C. A. Woodruff, at the Cage, before April 2, at the latest, stating whether sleeping car accommodations are desired on the return trip. The round trip on special train exclusive of sleeping car is $3. Sleeping car accommodations cost $1.50 addional, returning only. The exact time of trains will be announced later.

DECIDE BY TOMORROW